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<input type="checkbox"/>	L28	L27 and L21	10
<input type="checkbox"/>	L27	709/(203,217).ccls.	95441
<input type="checkbox"/>	L26	((mov\$ or delet\$ or insert\$) near2 tag\$1) same placeholder\$	17
<input type="checkbox"/>	L25	L21 and L10	15
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<input type="checkbox"/>	L22	L21 and ((tag\$ near2 propert\$) same ((electronic adj document\$) or (markup adj language)))	0
<input type="checkbox"/>	L21	(placeholder same ((electronic adj document\$) or (markup adj language)))	125
<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L20	20040098320 20030007014 20020091725 20030167444	4
<i>DB=USPT; PLUR=YES; OP=OR</i>			
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<input type="checkbox"/>	L18	(6829570 or 5579466).pn.	2
<input type="checkbox"/>	L17	6,785,685.pn.	1
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<input type="checkbox"/>	L16	715/(517,525).ccls.	96355
<input type="checkbox"/>	L15	L14 and (placeholder\$ same markup)	8
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<input type="checkbox"/>	L10 (XSD or (Extensible adj Schema adj Definition))	1124
<input type="checkbox"/>	L9 ((Word adj processor adj markup adj language) or WPML)	13
<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L8 (5,875,443 5,892,919 5,893,073 5,895,461 5,896,321 5,900,004 5,913,214 5,920,859 5,924,099 5,933,498 5,946,647 5,948,061 5,956,681 5,974,413 5,995,756 6,006,265 6,006,279 6,014,616 6,028,605 6,052,531 6,061,516 6,067,087 6,085,201 6,092,074 6,108,674 6,112,209).pn.	26
<input type="checkbox"/>	L7 (5,717,923 5,752,022 5,761,689 5,781,189 5,781,904 5,794,257 5,802,253 5,802,262 5,802,299 5,802,530 5,805,911 5,809,318 5,815,830 5,818,447 5,821,931 5,822,539 5,826,025 5,845,077 5,855,007 5,859,636 5,872,973).pn.	21
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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L5 L4 and (XSD or (Extensible adj Schema adj Definition))	3
<input type="checkbox"/>	L4 L3 and (edit\$1 same ((electronic adj document\$) or (markup adj language)))	190
<input type="checkbox"/>	L3 L2 or L1	98689
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Relevance scale

- 1 [aTool: creating validated XML documents on the fly using MS word](#)

Oliver Meyer
October 2002 **Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02**

Publisher: ACM Press

Full text available: pdf(239.02 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes aTool, an extension to Microsoft's Word to create XML documents. aTool has been developed in a joint project of the publisher Springer Verlag, Technical University of Munich (TUM), and Technical University of Aachen (RWTH). It has been developed to provide Springer Verlag with uniform XML documents from its authors and has become a generic XML creation tool that can be adapted to different document structures. For an author, aTool derives XML structures from MS Word editing c ...

Keywords: A-Posteriori Integration, DOM, Microsoft Office, Microsoft Word, Microsoft Word Add-In, XML, character formatting

- 2 [Making use of document standards and models: An environment for maintaining computation dependency in XML documents](#)

Dongxi Liu, Zhenjiang Hu, Masato Takeichi
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available: pdf(236.83 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the domain of XML authoring, there have been many tools to help users to edit XML documents. These tools make it easier to produce complex documents by using such technologies as syntax-directed or presentation-oriented editing, etc. However, when an XML document contains data with some computation dependency among them, these tools cannot free users from the burden of maintaining this dependency relationship. By computation dependency, we mean that some data are gotten by computing from othe ...

Keywords: XML, computation dependency, functional programming, lazy evaluation, programmable structured document

- 3 [The word-processing patent: a sceptical view from a person having ordinary skill in the art](#)

Bob Jolliffe

July 2005 **Proceedings of the 2005 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries SAICSIT '05**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: pdf(144.40 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In April of 2004 a patent was published by the South African patent office entitled: "Word-processing document stored in a single XML file that may be manipulated by applications that understand XML". The description refers to a word-processing program which reads and writes documents in a native XML format. The patent application, number ZA200303346, was filed by Microsoft Corporation. That such an item should have washed up on our shores (we can be reasonably sure it did not originate here) is ...

Keywords: computers and society, free/open source software, globalisation, intellectual property, legal aspects of computing, software patents

4 A programmable editor for developing structured documents based on bidirectional transformations

Zhenjiang Hu, Shin-Cheng Mu, Masato Takeichi

August 2004

Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation PEPM '04

Publisher: ACM Press

Full text available: pdf(397.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a novel editor supporting interactive refinement in the development of structured documents. The user performs a sequence of editing operations on the document view, and the editor automatically derives an efficient and reliable document source and a transformation that produces the document view. The editor is unique in its programmability, in the sense that the transformation can be obtained through editing operations. The main tricks behind are the utilization of the view- ...

Keywords: bidirectional transformation, document engineering, editor, functional programming, view updating

5 Live documents with contextual, data-driven information components

Anke Weber, Holger M. Kienle, Hausi A. Müller

October 2002 Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02

Publisher: ACM Press

Full text available: pdf(627.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

Keywords: Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

6 Applying Bloom's taxonomy of cognition to knowledge management systems

Robert A. Rademacher

April 1999 Proceedings of the 1999 ACM SIGCPR conference on Computer personnel research SIGCPR '99

Publisher: ACM Press

Full text available: pdf(341.74 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Bloom's taxonomy of cognition, KM media, knowledge, knowledge management, modeling, organizational learning, value chain

7 Private information management: Scanning electronic documents for personally identifiable information

Tuomas Aura, Thomas A. Kuhn, Michael Roe

October 2006 Proceedings of the 5th ACM workshop on Privacy in electronic society WPES '06

Publisher: ACM Press

Full text available: pdf(346.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sometimes, it is necessary to remove author names and other personally identifiable information (PII) from documents before publication. We have implemented a novel defensive tool for detecting such data automatically. By using the detection tool, we have learned about where PII may be stored in documents and how it is put there. A key observation is that, contrary to common belief, user and machine identifiers and other metadata are not embedded in documents only by a single piece of software, ...

Keywords: metadata, personally identifiable information, privacy

8 Scholarly journals as web services: automated scholarship, memes and cyberactive articles

Bruce J. Neubauer

April 2003 Journal of Computing Sciences in Colleges, Volume 18 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(41.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's scholarly articles are passive entities. Using tags, object-oriented programming techniques, and Web services programming it may be possible to make future articles active participants in scholarship. A possible transition to "cyberactive articles" will involve a substantial change in how we perceive the work

of scholarship and the role of academic journals. This article suggests that future scholarship may become "literary engineering" supported by appropriate software tools.

9 Demonstrations: CATfood, a Code Authoring Tool



Robin Reynolds-Haertle

November 2002 **Companion of the 17th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**

Publisher: ACM Press

Full text available: pdf(148.09 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)



This paper describes CATfood (Code Authoring Tool), an application created to automatically test example code that is embedded in word processing files.

Keywords: .NET, C#, CATfood, COM, automation, documentation, testing

10 Transparent adaptation of single-user applications for multi-user real-time collaboration



Chengzheng Sun, Steven Xia, David Sun, David Chen, Haifeng Shen, Wentong Cai

December 2006 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Single-user interactive computer applications are pervasive in our daily lives and work. Leveraging single-user applications for supporting multi-user collaboration has the potential to significantly increase the availability and improve the usability of collaborative applications. In this article, we report an innovative *Transparent Adaptation* (TA) approach and associated supporting techniques that can be used to convert existing and new single-user applications into collaborative ones, ...

Keywords: Application sharing, CoPowerPoint, CoWord, computer-supported cooperative work, operational transformation, transparent adaptation

11 STOP: light on the history of outlining



Jonathan Price

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(937.39 KB)

Additional Information: [full citation](#), [index terms](#)



12 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems



Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(334.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. However ...

Keywords: file synchronization, mobile file system, raw activity shipping

13 Operational transformation: Operational transformation for collaborative word processing



David Sun, Steven Xia, Chengzheng Sun, David Chen

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04**

Publisher: ACM Press

Full text available: pdf(308.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Operational Transformation (OT) is a technique originally invented for supporting consistency maintenance in collaborative text editors. Word processors have much richer data types and more comprehensive operations than plain text editors. Among others, the capability of updating attributes of any types of object is an essential feature of all word processors. In this paper, we report an extension of OT for supporting a generic <i>Update</i> operation, in addition to <i>Insert</i> ...

Keywords: group undo, multi-versioning, operational transformation

14 Relevancy-based access control and its evaluation on versioned XML documents

Mizuho Iwaihara, Ryotaro Hayashi, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse
February 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.00 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable information on dependencies between document nodes, but, at the same time, presenting the risk of undesirable data disclosure. In this article, we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version depend ...

Keywords: Access control, XML, XPath, query language, security, version control

15 A normal form for XML documents

Marcelo Arenas, Leonid Libkin
March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(439.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article takes a first step towards the design and normalization theory for XML documents. We show that, like relational databases, XML documents may contain redundant information, and may be prone to update anomalies. Furthermore, such problems are caused by certain functional dependencies among paths in the document. Our goal is to find a way of converting an arbitrary DTD into a well-designed one, that avoids these problems. We first introduce the concept of a functional dependency for XM ...

Keywords: DTDs, XML data, design, functional dependencies, normal form

16 XML access control: A bitmap-based access control for restricted views of XML documents

Abhilash Gummadi, Jong P. Yoon, Biren Shah, Vijay Raghavan
October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

Publisher: ACM Press

Full text available: pdf(268.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The information on the web is growing at a very fast pace. In this ever-accumulating data, the volume of information represented in XML format is on the rise in recent times. An organization that puts forth its information on the web in XML format has several issues to take into account such as limiting the view of intended audience to only relevant portions of the documents. To address this problem, we propose the concept of "Restricted views" to implement security in XML documents. This could ...

Keywords: XML, access control, bitmap, restricted views, security, security cube

17 XML access control: Access control of XML documents considering update operations

Chung-Hwan Lim, Seog Park, Sang H. Son
October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

Publisher: ACM Press

Full text available: pdf(298.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML acces ...

Keywords: XML document, XML update, access control

18 Editing and authoring: A structural adviser for the XML document authoring

Boris Chidlovskii
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**

Publisher: ACM Press

Full text available: pdf(207.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the XML format became a *de facto* standard for structured documents, the IT research and industry have developed a number of XML editors to help users produce structured documents in XML format. However, the manual generation of structured documents in XML format remains a tedious and time-consuming process because of the excessive verbosity and length of XML code. In this paper, we design a

structural adviser for the XML document authoring. The adviser intervenes at any step of the ...

Keywords: XML markup, data mining, structural pattern, suggestion

19 XML query processing I: Dynamic XML documents with distribution and replication

Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available:  pdf(209.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly while other parts are given only intensionally by means of embedded calls to web services that can be called to generate the required information. By the sole presence of Web services, dynamic documents already include inherently some form of di ...

20 XML and text: XRank: ranked keyword search over XML documents

Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available:  pdf(265.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of efficiently producing ranked results for keyword search queries over hyperlinked XML documents. Evaluating keyword search queries over hierarchical XML documents, as opposed to (conceptually) flat HTML documents, introduces many new challenges. First, XML keyword search queries do not always return entire documents, but can return deeply nested XML elements that contain the desired keywords. Second, the nested structure of XML implies that the notion of ranking is no l ...

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Relevance scale **1 Preserving state government web publications: first-year experiences**

Larry S. Jackson

May 2003

Proceedings of the 2003 annual national conference on Digital government research dg.o '03

Publisher: Digital Government Research Center

Full text available:  pdf(38.98 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Government information publishing on the web encounters differing expectations concerning the permanence of documents. Presumptions of informality in web authoring and publishing widely persist. But, terms like "government documents" convey, at least to the layman, an expectation of formality, official content, and permanence. If permanent, searchable archives of electronic documents are to be constructed, issues in economical automated assembly and cataloging of multiple simultaneous versions o ...

2 Preserving state government web publications: first-year experiences

Larry S. Jackson

May 2003

Proceedings of the 2003 annual national conference on Digital government research dg.o '03

Publisher: Digital Government Research Center

Full text available:  pdf(38.98 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Government information publishing on the web encounters differing expectations concerning the permanence of documents. Presumptions of informality in web authoring and publishing widely persist. But, terms like "government documents" convey, at least to the layman, an expectation of formality, official content, and permanence. If permanent, searchable archives of electronic documents are to be constructed, issues in economical automated assembly and cataloging of multiple simultaneous versions o ...

3 Automatic generation of amendment legislation

Timothy Arnold-Moore

June 1997

Proceedings of the 6th international conference on Artificial intelligence and law ICAIL '97

Publisher: ACM Press

Full text available:  pdf(1.00 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4 Technical correspondence: Incremental definition and operationalization of domain-specific markup languages in ADDS**

José L. Sierra, Antonio Navarro, Baltasar Fernández-Manjón, Alfredo Fernández-Valmayor

December 2005 **ACM SIGPLAN Notices**, Volume 40 Issue 12

Publisher: ACM Press

Full text available:  pdf(312.49 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ADDS is our proposal for the development of content-intensive applications. Applications in ADDS are produced by processing documents that describe their main aspects and that have been marked up using application-dependent, Domain-Specific Markup Languages (DSMLs). To make ADDS of practical value, we promote the incremental definition of DSMLs, as well as their incremental operationalization (i.e. the incremental construction of their processors). In this paper we describe how this incremental ...

Keywords: XML, domain-specific markup languages, modular document grammars, modular language processors, software development approach

5 Tracing the roots of markup languages

Rishi Toshniwal, Dharma P. Agrawal

May 2004

Communications of the ACM, Volume 47 Issue 5

Publisher: ACM Press

Full text available: [pdf\(191.70 KB\)](#) [html\(17.95 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Markup languages provide efficient ways of storing information on the Web and make the retrieval process easier. Indeed, its simplicity and added intelligence to the document makes it useful for messaging between clients and server.

6 Systems: Avatar Markup Language

Sumedha Kshirsagar, Nadia Magnenat-Thalmann, Anthony Guye-Vuillème, Daniel Thalmann, Kaveh Kamyab, Ebrahim Mamdani

May 2002

Proceedings of the workshop on Virtual environments 2002 EGVE '02

Publisher: Eurographics Association

Full text available: [pdf\(290.52 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Synchronization of speech, facial expressions and body gestures is one of the most critical problems in realistic avatar animation in virtual environments. In this paper, we address this problem by proposing a new high-level animation language to describe avatar animation. The Avatar Markup Language (AML), based on XML, encapsulates the Text to Speech, Facial Animation and Body Animation in a unified manner with appropriate synchronization. We use low-level animation parameters, defined by the M ...

Keywords: agent controlled animation, animation language, avatar animation, virtual human animation

7 The eXtensible Rule Markup Language

Jae Kyu Lee, Mye M. Sohn

May 2003

Communications of the ACM, Volume 46 Issue 5

Publisher: ACM Press

Full text available: [pdf\(214.70 KB\)](#) [html\(31.16 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XRML explices the rules implicitly embedded in Web pages, enabling software agents to process the rules automatically.

8 Principles of video annotation markup language (VAML)

Tina T. Zhou, Jesse S. Jin

June 2004

Proceedings of the Pan-Sydney area workshop on Visual information processing VIP '05

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(108.45 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The creation of hypertext and World Wide Web provided a powerful mechanism for organizing and distributing the warehouse of information. However, video-based hypermedia may represent the future of the Internet since it provides a much better viewing experience. Our ongoing project - the Video Annotation Markup Language (VAML) aims to enhance the hypervideo framework. In this paper, we give a detailed description of VAML and its principles.

Keywords: HyperVideo, HyperVideo authoring, video annotation

9 Session 3: XML applications: XrML -- eXtensible rights Markup Language

Xin Wang, Guillermo Lao, Thomas DeMartini, Hari Reddy, Mai Nguyen, Edgar Valenzuela

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available: [pdf\(466.82 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

XrML (eXtensible rights Markup Language) is an XML-based language for digital rights management (DRM), providing a universal method for specifying rights and conditions associated with the use and protection of digital content and services. Originally developed at Xerox's Palo Alto Research Center (PARC), the specification facilitates the creation of an open architecture for digital rights management of content or services. It can be integrated with both existing and new DRM systems. XrML is a g ...

Keywords: DRM, XML, content distribution and usage, digital rights management, rights, specification languages, standards

10

XACDML- Extensible ACD Markup Language

Jose Nilton Gil, Celso M Hirata

March 2003 **Proceedings of the 36th annual symposium on Simulation ANSS '03**

Publisher: IEEE Computer Society

Full text available:  pdf(147.08 KB)

Additional Information: full_citation, abstract, index_terms

Extensible Markup Language (XML) is a meta-language, used to create generalized markup languages. ActiveCycle Diagrams are a specification language to describe discrete event models and it has been deployed in many simulation software environments. This work presents a specification for an XML for simulation models by using Active Cycle Diagrams, named eXtensible Activity CycleDiagram Markup Language (XACDML). XACDML is designed to allow easy exchange of simulation model information on the Internet. Wi ...

11 Managing security policies in a distributed environment using eXtensible markup language (XML)



Nathan N. Vuong, Geoffrey S. Smith, Yi Deng

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**

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Keywords: Java, RBAC, XML, distributed authorization, managing security policies, meta-language

12 Document reuse and semantics: Towards a semantics for XML markup



Allen Renear, David Dubin, C. M. Sperberg-McQueen

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering DocEng '02**

Publisher: ACM Press

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Although XML Document Type Definitions provide a mechanism for specifying, in machine-readable form, the syntax of an XML markup language, there is no comparable mechanism for specifying the *semantics* of an XML vocabulary. That is, there is no way to characterize the meaning of XML markup so that the facts and relationships represented by the occurrence of XML constructs can be explicitly, comprehensively, and mechanically identified. This has serious practical and theoretical consequence ...

Keywords: SGML, XML, knowledge representation, markup, semantics

13 Coordinating mathematical content and presentation markup in interactive mathematical documents



Samuel S. Dooley

August 1998

Proceedings of the 1998 international symposium on Symbolic and algebraic computation ISSAC '98

Publisher: ACM Press

Full text available:  pdf(247.00 KB)

Additional Information: full_citation, references, citations, index_terms



14 Markup systems and the future of scholarly text processing



James H. Coombs, Allen H. Renear, Steven J. DeRose

November 1987 **Communications of the ACM, Volume 30 Issue 11**

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Additional Information: full_citation, abstract, references, citations, index_terms, review



Markup practices can affect the move toward systems that support scholars in the process of thinking and writing. Whereas procedural and presentational markup systems retard that movement, descriptive markup systems accelerate the pace by simplifying mechanical tasks and allowing the authors to focus their attention on the content.

15 Web-enabled simulation technologies: web-enabled tools, languages, and applications: XML-based supply chain simulation modeling

Dean C. Chatfield, Terry P. Harrison, Jack C. Hayya

December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**

Publisher: Winter Simulation Conference

Full text available:  pdf(263.31 KB)

Additional Information: full_citation, abstract, references



We describe a different approach to using XML to support the simulation modeling of supply chains. Instead of using XML to specify the simulation constructs, as most previous approaches do, we utilize XML to describe the supply chain itself. The Supply Chain Modeling Language (SCML) is a general, reusable, platform and methodology independent standard for describing a supply chain's structure and logic. SCML is usable by analysts using many methodologies, including simulation. We describe a sample ...

- 16 [Short papers: A markup language for describing interactive humanoid robot presentations](#)
 Yoshitaka Nishimura, Shinichiro Minotsu, Hiroshi Dohi, Mitsuru Ishizuka, Mikio Nakano, Kotaro Funakoshi, Johane Takeuchi, Yuji Hasegawa, Hiroshi Tsujino
 January 2007 **Proceedings of the 12th international conference on Intelligent user interfaces IUI '07**
 Publisher: ACM Press
 Full text available:  pdf(120.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a multi-modal presentation markup language for humanoid robots, MPML-HR ver. 3.0, which is able to describe presentation contents including speech-based interactions with audiences. Previous versions of MPML-HR do not feature any interaction functionality which dynamically changes the presentation according to the utterances by audiences, although such interaction makes the presentation more effective and understandable. Since MPML-HR ver. 3.0 inherits simple descriptions of ...

Keywords: interaction, multimodal system, presentation

- 17 [SCL: a language for security testing of network applications](#)
 Sylvain Marquis, Thomas R. Dean, Scott Knight
 October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**
 Publisher: IBM Press
 Full text available:  pdf(226.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security of network applications has become increasingly important in the past several years. Syntax-based testing is a black box, data driven testing technique, for applications for which input can be described formally. SCL is a component of Protocol Tester, a project at RMC and Queen's, that uses syntax-based testing to evaluate the security of network applications. As a language, SCL can describe the syntax and the semantic constraints of a given protocol, constraints that pertain to the test ...

- 18 [ESSQL: an enhanced semi-structured query language for composite document retrievals](#)
 Reo-Jo Yamashita, Tetsuro Ito, Hsiu-Hsen Yao
 September 1998 **Proceedings of the 16th annual international conference on Computer documentation SIGDOC '98**
 Publisher: ACM Press
 Full text available:  pdf(632.66 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

- 19 [Operational transformation: Operational transformation for collaborative word processing](#)
 David Sun, Steven Xia, Chengzheng Sun, David Chen
 November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04**
 Publisher: ACM Press
 Full text available:  pdf(308.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Operational Transformation (OT) is a technique originally invented for supporting consistency maintenance in collaborative text editors. Word processors have much richer data types and more comprehensive operations than plain text editors. Among others, the capability of updating attributes of any type of object is an essential feature of all word processors. In this paper, we report an extension of OT for supporting a generic <i>Update</i> operation, in addition to <i>Insert</i> ...

Keywords: group undo, multi-versioning, operational transformation

- 20 [Document access and understanding: Methods for the semantic analysis of document markup](#)
 Petra Saskia Bayerl, Harald Lüngen, Daniela Goecke, Andreas Witt, Daniel Naber
 November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**
 Publisher: ACM Press
 Full text available:  pdf(230.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented XML-documents. The domain of our investigation is a corpus of scientific articles from psychology and linguistics from both English and German online available journals. For our analyses, we provide XML-markup representing two kinds of semantic ...

Keywords: XML, information extraction, prolog, semantic analysis

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